

connected by very numerous cross ones; tegulæ ferruginous. Wings hairy, nervures and the large stigma fusco-ferruginous; b. n. falling short of t.-m.; second t.-c. with the usual patch of black hair, but the nervure only slightly bent (not strongly as in *T. bicometes*). Legs ferruginous; hind tibia with a broad creamy-white lamina bearing the spurs; hind tarsi very long, dull pale yellowish, with yellowish hair. Abdomen black, with the usual apical hair-bands, only evident in certain lights, when they shine brilliantly; disks of third and fourth segments covered with a sort of brownish felt; fifth ventral segment with a pencil of long yellowish hair on each side, and a pair of small erect hair-pencils arising from base, in the wide emargination of fourth segment. The hind margins of the abdominal segments are dark, not whitish hyaline as they are in *T. orchidarum*, Ckll., and other African species.

Hab. Madagascar. British Museum, 95. 21.

For other species of this genus see Ann. & Mag. Nat. Hist., April 1908, p. 343. "*T. orthonnce*," as there given, is a misprint for *T. othonnæ*. Friese (1909) has added a species *T. sjöstedti*, described under *Diagonozus*.

LXVIII.—*Descriptions of a new Hawk-Moth and some new Syntomidæ.* By the Hon. WALTER ROTHSCHILD, Ph.D.

I. *Meganoton hyloicoides*, sp. n.

At first sight this insect resembles a giant *Hyloicus francki*.

♂. Palpi cinnamon-brown mixed with grey; head and tegulæ black, bordered with dark cinnamon-rufous; thorax and patagia pale yellowish brown, with a broad central black band; abdomen rufous-cinnamon, with brown central band and darker edges to segments. Fore wing: base buffy brown, basal third blackish brown, with five or six irregular dark maroon and grey transverse zigzag bands; rest of wing rufous-cinnamon, with irregular white, maroon, and grey bands and patches; a large apico-costal sooty patch. Hind wing: inner three-fourths cinnamon-brown, with indistinct black patches near inner area; outer fourth black powdered with yellowish grey; fringe cinnamon-rufous mixed with whitish.

Underside of both wings cinnamon-rufous, with two transverse irregular black bands on fore wings and three more distinct ones on hind wing.

Length of fore wing 74 mm.

Female (in coll. Kenrick) much larger and paler.

Hab. Ninay Valley, Central Arfak Mountains, Dutch New Guinea, Nov. 1908 to January 1909 (*A. E. Pratt Coll.*).

3 ♂♂.

II. Syntomidæ.

(1) *Cosmosoma flavothorax*, sp. n.

♂. Legs clay-brown; pectus golden yellow; palpi black; antennæ fuscous; head metallic blue; collar black; tegulæ and patagia sooty brown, a blue metallic spot at base of patagia; thorax golden yellow; abdomen golden yellow, last four segments black, with dorsal and lateral rows of metallic-blue patches. Fore wing hyaline; costa, nervures, inner margin, and apical fourth of wing sooty brown; discocellular stigma black. Hind wing hyaline, margins and nervures sooty black.

Length of fore wing, ♂ 21 mm.

Hab. Doubtful.

1 ♂.

(1 a) *Cosmosoma intensa*, sp. n.

♂ ♀. Similar to *C. flavothorax*, but darker; yellow areas of body orange and dark areas of wings sooty black.

Hab. Cananche, Cundinamarca, June 1903 (*M. de Mathan*); Paramba, Ecuador.

1 ♂, 1 ♀.

Probably a subspecies of the preceding.

(2) *Cosmosoma mathani*, sp. n.

♂. Legs black-brown; pectus golden and black; palpi black; antennæ black, tips whitish; head metallic blue; thorax black, two spots on tegulæ, two at base of patagia, and central band metallic blue; abdomen golden-orange, last four segments and basal segment above black; a central and lateral lines on whole abdomen metallic blue. Fore wing hyaline; costal, inner, and terminal margins, nervures, and apical fifth of wing sooty black. Hind wing hyaline, nervures and margins sooty black.

♀. Similar, but black wing-areas wider and metallic-blue spots on orange portion of abdomen absent.

Length of fore wing, ♂ 21, ♀ 24 mm.

Hab. Cananche, Cundinamarca, July 1903 (*M. de Mathan*).

2 ♂♂, 3 ♀♀.

(3) *Cosmosoma chiriquensis*, sp. n.

♂ ♀. Legs, head, and antennæ sooty black; pectus golden yellow; thorax golden yellow; abdomen golden yellow, a patch on segments 2 and 3 and last two segments black. Fore wing hyaline, base golden yellow followed by black patch; costa, outer margin, and apical fifth black. Hind wing hyaline, base yellow, apex and fringe black; nervures of both wings very narrowly marked black.

Length of fore wing, ♂ 22, ♀ 19 mm.

Hab. Chiriqui, Panama.

1 ♂, 1 ♀.

(4) *Cosmosoma rosenbergi*, sp. n.

♀. Fore coxæ white; legs, pectus, and antennæ dark sooty brown; head black, frons edged with white; collar white; thorax black, with white central patch; abdomen, first three segments orange, each with dorsal patch of black, rest of abdomen black. Fore wing hyaline; nervures, outer and inner margins, and terminal fifth black; two white spots at base; basal two-fifths of costa hyaline, rest black. Hind wing hyaline, margins and nervures black.

♂. Differs in having abdomen yellow, only last two segments black.

Length of fore wing 20 mm.

Hab. Paramba, Ecuador, 3500 metres (dry season), April 1897; Chimbo, Ecuador, 2000 metres, August 1897 (*W. F. H. Rosenberg*); Rio Dagua, Columbia (*W. F. H. Rosenberg*).

3 ♀♀, 2 ♂♂.

(5) *Cosmosoma watsoni*, sp. n.

♀. Pectus, legs, head, and thorax sooty black; abdomen golden yellow, last three segments sooty black. Fore wings hyaline opalescent; base, costa, nervures, a large cellular stigma, and inner margin sooty black, outer fourth sooty black, excised internally between veins 4 and 6. Hind wing hyaline, nervures and broad margins sooty black.

Length of fore wing 20 mm.

Hab. Bouquete, Chiriqui, 3500 feet, Chiriqui (*Watson*).

2 ♀♀.

(6) *Cosmosoma buchwaldi*, sp. n.

♀. Pectus sooty brown; legs sooty brown, fore tibiæ and coxæ yellow; head sooty brown, vertex white, antennæ and thorax sooty brown; abdomen sooty brown, yellow on sides of first three segments. Fore wing hyaline (yellowish); nervures, outer margin, apical fifth, and large cellular stigma sooty black; basal third of costa hyaline, rest sooty black, inner margin sooty black, with two orange lines on each side of vein 1 from base for one-third its length. Hind wing hyaline (yellowish); apex, nervures, and margins sooty black.

Length of fore wing 17 mm.

Hab. Quevedo, Ecuador (*v. Buchwald*).

1 ♀.

(7) *Cosmosoma klagesi*, sp. n.

♀. Pectus white; legs sooty brown; antennæ black; head black, frons edged with white; thorax black, with central white patch; abdomen orange. Fore wing hyaline; nervures, inner margin, and apical third of wing black; two white spots at base, basal fourth of costa hyaline, rest black. Hind wing hyaline; apex, margins, and nervures black.

Length of fore wing 15 mm.

Hab. Caparo, Trinidad, Nov. 1905 (*S. M. Klages*).

1 ♀.

(8) *Cosmosoma ockendeni*, sp. n.

♀. Pectus yellow; legs, head, antennæ, and thorax black; abdomen, first three segments orange with lateral black band, rest black. Fore wing hyaline, basal half of costa hyaline, rest black, nervures and outer and inner margins very narrowly black, apex black. Hind wing hyaline; nervures, apex, and outer margin black, inner margin smoky grey.

Length of fore wing 14 mm.

Hab. Santa Domingo, Carabaya, Peru, 6000 feet (wet season), Nov. 1902 (*G. R. Ockenden*).

1 ♀.

(9) *Cosmosoma analicincta*, sp. n.

♀. Legs brown, tibiæ and coxæ yellow; pectus and head yellow; antennæ black; thorax deep orange; abdomen deep orange, anal segment black. Fore wing hyaline, outer and inner margins and nervures black; basal three-fifths of costa

hyaline, rest of costa and apical fifth of wing black. Hind wing hyaline; outer margin, apex, and nervures black, inner area hyaline.

Length of fore wing 13 mm.

Hab. La Oroya, Rio Inambari, S.E. Peru, 3100 feet (wet season), March 1905; La Union, Rio Huacamayo, Carabaya, Peru, 2000 feet (wet season), Nov. 1904 (*G. R. Ockenden*).

2 ♀ ♀.

(10) *Cosmosoma plagiata*, sp. n.

♀. Pectus yellow; legs, head, antennæ, and thorax black; abdomen yellow, anal segment and a large dorsal patch on segments 3, 4, and 5 black. Fore wing hyaline; nervures, outer and inner margins, a large discocellular stigma, and apical fourth of wing black; at tornus a black patch; basal two-thirds of costa hyaline, rest black. Hind wing hyaline; apex, tornus, and nervures black, inner area hyaline.

Length of fore wing 15 mm.

Hab. Santo Domingo, Carabaya, Peru, 6500 feet (wet season), Dec. 1902 (*G. R. Ockenden*).

1 ♀.

(11) *Gymnelia baroni*, sp. n.

♂. Pectus black; first two pairs of legs black, with white bands at joints, third pair black, with tarsi and spurs white; head black, with two minute white spots at base of antennæ; antennæ deep oil-green; thorax black, outer half of tegulæ brick-red; abdomen black, a pair of brick-red spots on segments 1, 5, 6, and 7; the whole body above and below very hairy. Fore wing hyaline golden; nervures, apical fifth, inner margin, and large discocellular stigma black, with oily sheen; costa oil-green, with basal brick-red patch; an orange streak on inner margin. Hind wing hyaline golden, with nervures and very broad margins black.

Length of fore wing 20 mm.

Hab. Zamora, Ecuador, 3000-4000 feet (*O. T. Baron*).

1 ♂.

(12) *Gymnelia ockendeni*, sp. n.

♀. Pectus black; legs black, fore tibiæ and coxæ crimson; head, antennæ, and thorax black; abdomen above black, with two crimson lateral dots on second and third segments, below black, with crimson patch on last segment and a white spot

on each side of second and third. Fore and hind wings hyaline, base broadly black, nervures and margins black.

Length of fore wing 17 mm.

Hab. Santo Domingo, Carabaya, Peru, 6500 feet (wet season), Nov. 1902 (*G. R. Ockenden*).

1 ♀.

(13) *Gymnelia pilosa*, sp. n.

♀. Pectus black; legs black and white; head black; antennæ black, white tips; tegulæ black, with white central spot; patagia black, with white marginal fringe of long hairs; thorax black; abdomen black, with deep orange rings and scattered long white hairs. Fore wings hyaline yellowish, more brown near nervures; base black, with white spot; inner margin black, with broad yellow band above it at basal half, an orange dash on outer half; a large discocellular stigma; nervures and outer margin black; wing between veins 6 and 8 at outer margin strongly excised, and a large black spot at the excision; basal two-thirds of costa hyaline, rest black. Hind wing hyaline, base black, basal half covered with a whitish fluorescence; inner area sooty grey, with long white hairs; tornus, outer margin, nervures, and large cellular stigma black.

Length of fore wing 20 mm.

Hab. Marcapata, E. Peru, 10,800 feet (*G. R. Ockenden*).

1 ♀.

(14) *Isanthrene mathani*, sp. n.

♂ ♀. Pectus black, with metallic-blue spots; legs dark brown, with blue metallic bands and white on coxæ; head black, with three metallic-blue spots; antennæ black; tegulæ black, apical third bright orange; patagia bright orange, with black borders and a basal blue spot; thorax black, with four blue spots; abdomen metallic blue; a basal transverse yellow band; a dorsal black longitudinal band and very narrow intersegmental orange lines, each segment edged with black, last segment entirely orange. Fore wing hyaline yellow; outer margin, nervures, and large apical patch black; four-fifths of costa and inner margin orange, rest black. Hind wing hyaline yellow; fringe, tornus, and nervures black.

Length of fore wing 21 mm.

Hab. Cananche, Cundinamarca, June 1903 (*M. de Mathan*); Columbia (*A. E. Pratt*).

2 ♂ ♂, 1 ♀.